

IMPORTANT OWNER INFORMATION
 THIS DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CONTRACTOR'S REPRESENTATION OF THE EXISTING CONDITIONS AND THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER.

CPVC COMPATIBILITY NOTICE
 CPVC FIRE SPRINKLER PIPING SYSTEMS HAVE BEEN SUCCESSFULLY USED FOR MORE THAN 25 YEARS IN NEW CONSTRUCTION. CPVC AND CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM MANY MANUFACTURERS. CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM MANY MANUFACTURERS. CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM MANY MANUFACTURERS.

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GRAPHICS ELEMENTS NOTE
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER.

WATER SUPPLY INFORMATION

ACTUAL	DESIGN OR ESTIMATED	TEST	DATE OF TEST
STATIC PRESSURE	80	HYDRANT ELEV.	164 (5'-0")
RESIDUAL PRESSURE	68	DATE OF TEST	3-20-2024
FLOW IN GPM	1060	TYPE OF TEST	3-20-2024
PITOT READING	40	NUMBER OF PORTS FLOWED	1

TEST PROVIDED BY: Lillington Fire Department
 HYDRANT LOCATION: Test Hydrant 4311 224 - Flow Hydrant 4311 225

DESIGN CRITERIA

SYSTEM / DESIGN AREA	HAZARD CLASS	TYPE OF SPINKLER IN DESIGN AREA	MINIMUM DENSITY	DESIGN AREA SF.	PST REQ'D @ BASIN	EPN REQ'D @ BASIN	PST REQ'D @ TEST	EPN REQ'D @ TEST	ELEVATION @ HIGHEST SPINKLER	MODE: INSIDE/OUTSIDE	DOMESTIC FEEDING

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS

SPRINKLERS

SYMB	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL

TOTAL PER FLOOR: _____
 TOTAL THIS SHEET: _____

DATE **SUBMITTALS** **BY**

3-16-2021	QA Review	DH
4-5-2024	Permit	DH

NO. **DATE** **REVISIONS** **BY**

1	XX/XX/XX		
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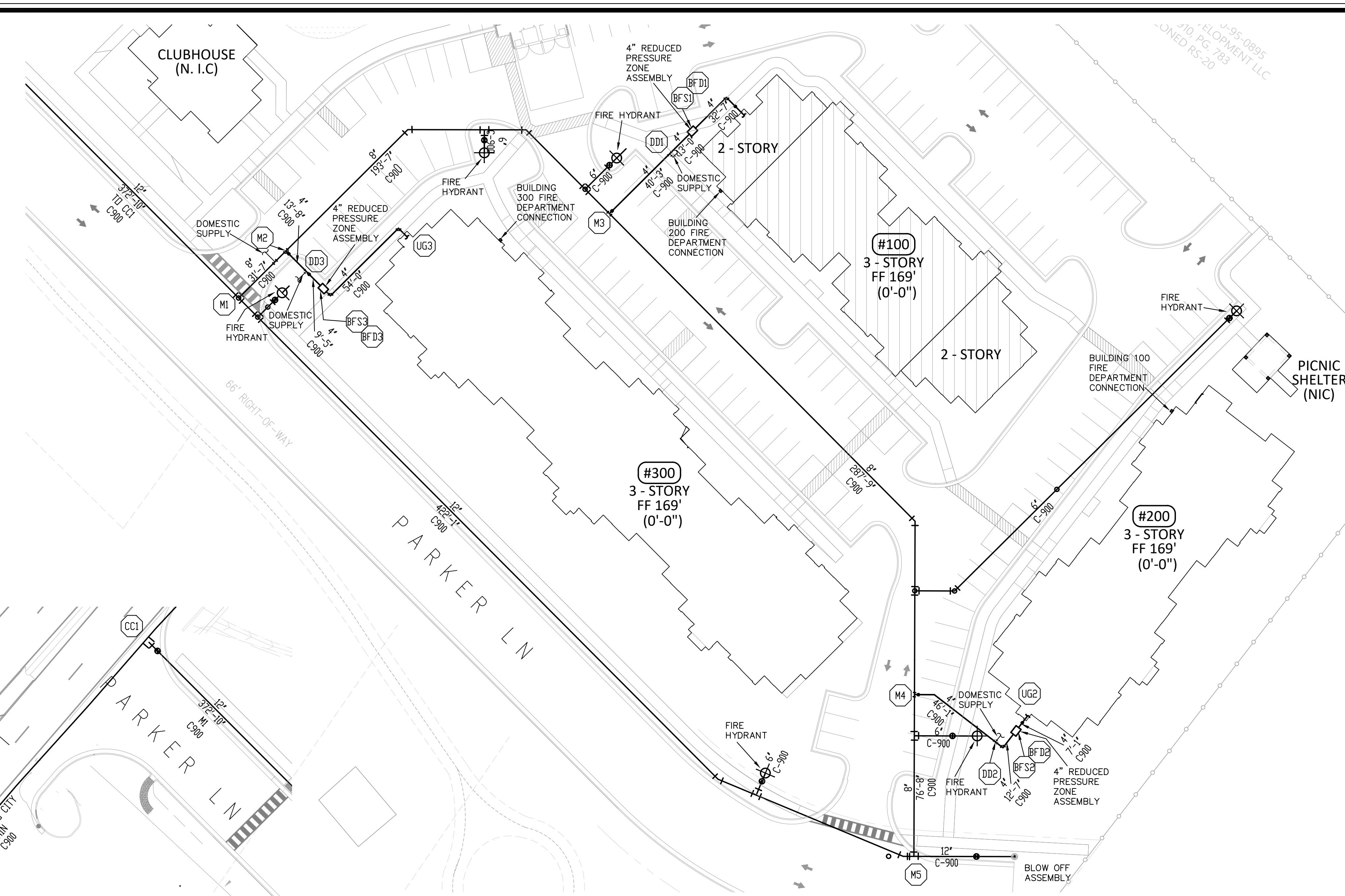
W. WAYNE
 Automatic Fire Sprinklers, Inc.
 MAIN OFFICE - ORLANDO, FLORIDA
 222 CAPITOL COURT OCOCHEE, FLORIDA 34781
 PHONE (407) 858-3030 FAX: (407) 858-8088

JACKSONVILLE, FL 3808 UNIVERSITY PARK DRIVE TAMPA, FL 33607-2746 PHONE: (904) 328-3224 FAX: (904) 328-0744	TAMPA, FL 3808 UNIVERSITY PARK DRIVE TAMPA, FL 33607-2746 PHONE: (813) 830-0201 FAX: (813) 830-0202	DEERFIELD BEACH, FL 1000 UNIVERSITY PARK DRIVE DEERFIELD BEACH, FL 33442-5902 PHONE: (561) 871-0201 FAX: (561) 871-0404
FT. MYERS, FL 4025 LINDSEY AVE. FT. MYERS, FL 33905-4804 PHONE: (888) 433-3030 FAX: (888) 433-3030	CONCORD, NC 4025 LINDSEY AVE. CONCORD, NC 28027-6877 PHONE: (704) 780-8088 FAX: (704) 780-8088	STATE LICENSE NC SPRINKLER #15 NC ALARM #2022 OF LV IC SPRINKLER #1 IC ALARM #2022

JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

Wynnefield Properties
 5614 Riverdale Road
 Jamestown, NC 27282

SHEET TITLE: FIRE SPRINKLER SITE PLAN
DRAWN BY: Donald Hawkins
TOTAL A/S: 938
DATE: 3-5-2021
CONTRACT #: Harnett County
NO.: 102001
CENTER OF TILE JOB? YES NO **CENTER ON FIXTURES JOB?** YES NO
SHEET #: _____ **CONSTRUCTION TYPE:** V-B
FPS 1.1 **OCCUPANCY:** R-2



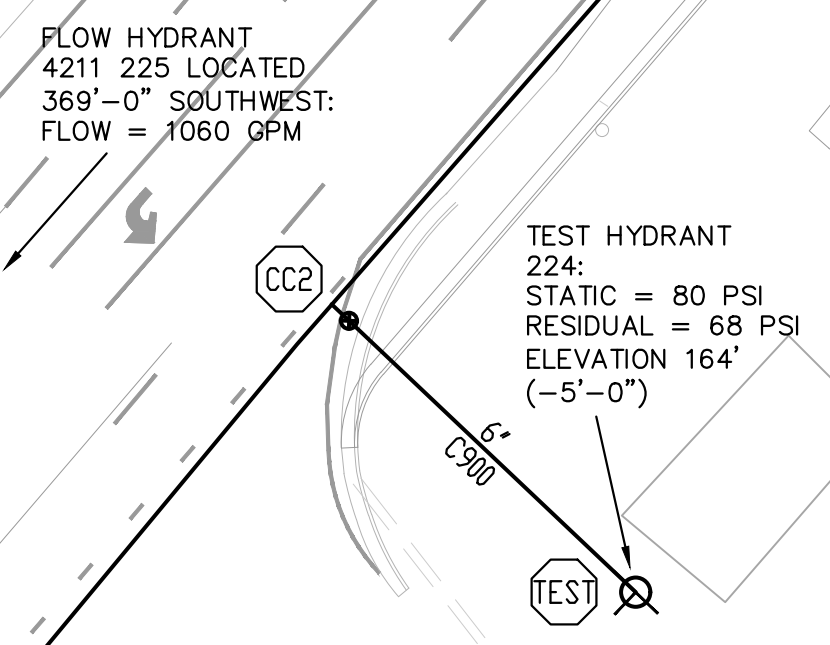
FIRE SPRINKLER SITE PLAN

SCALE 1" = 30'-0"

UNDERGROUND CONTRACTOR NOTES

- ALL UNDERGROUND PIPING IS BY OTHERS.
- PLANS ARE PROVIDED FOR HYDRAULIC REFERENCE NODE PURPOSES AND FDC LOCATIONS ONLY.
- UNDERGROUND CONTRACTOR IS TO PROVIDE WAFS WITH TEST CERTIFICATES INDICATING COMPLETION OF HYDROSTATIC TEST AND FLUSH PER NFPA 24 PRIOR TO WAFS CONNECTING TO THE UNDERGROUND.
- UNDERGROUND CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF LEAD-INS WITH WAFS.
- UNDERGROUND CONTRACTOR SHALL NOTIFY WAFS OF MAKE AND MODEL OF BACKFLOW PREVENTER USED WHEN IN THEIR SCOPE.
- ALL TAMPER SWITCHES REQUIRED ON UNDERGROUND NOT IN WAFS SCOPE SHALL BE BY OTHERS.
- FOR HYDRAULIC CALCULATION PURPOSES ELEVATION OF 169' IS CONSIDERED 0'-0".

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 SCALE: NONE
 00500N



FLOW TEST HYDRANT LOCATION

SCALE 1" = 30'-0"

BUILDING 100

SCALE 1" = 30'

IMPORTANT OWNER INFORMATION

THIS DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.

CPVC COMPATIBILITY NOTICE

CPVC FIRE SPRINKLER SYSTEMS HAVE BEEN SUCCESSFULLY USED FOR MORE THAN 25 YEARS IN NEW CONSTRUCTION. CPVC AND CPVC COMPATIBLE PRODUCTS ARE AVAILABLE FROM MANY MANUFACTURERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING STRUCTURE AND UTILITIES.

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GRAPHICS ELEMENTS NOTE

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WATER SUPPLY INFORMATION

STATIC PRESSURE	ACTUAL	DESIGN	TEST
RESIDUAL PRESSURE	80	80	80
FLOW IN GPM	1060	1060	1060
PITOT READING	40	40	40
TEST PROVIDED BY	Lillington Fire Department		
HYDRANT LOCATION	Parker Lane and North Main Street - Hydrant #224		

DESIGN CRITERIA

SYMBOL	MAXIMUM	MINIMUM	COMMENTS
⊗	18' x 18' UNID	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊙	225 SQ FT	7' BETWEEN SPRINKLERS	7'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊠	16' x 16' UNID	8' BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊡	196 SQ FT	7' BETWEEN SPRINKLERS	7'-0" MAX SPACING OFF WALLS UNID DEFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.

SPRINKLERS

SYMB	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL
⊗	77	42	-	-	R3516	1/2"	49	175°	RELIABLE MODEL F1 R49 49 WHITE RESIDENTIAL PENDENT WITH WHITE SEMI-RECESSED ESCUTCHEON
⊙	-	4	-	-	V3506	1"	56	200°	VICTORIAN MODEL V3506 WHITE QUICK RESPONSE BAY FLEXIBLE PENDENT SPRINKLER WITH WHITE ESCUTCHEON
⊠	-	31	44	-	R3531	1/2"	44	175°	RELIABLE MODEL F1 R44 44 RESIDENTIAL HORIZ. SIDEWALL WITH WHITE SEMI-RECESSED ESCUTCHEON
⊡	16	16	12	-	R5714	1"	56	200°	RELIABLE MODEL F304 WHITE QUICK RESPONSE 304 HORIZONTAL SIDEWALL SPRINKLER WITH WHITE SLEEVE AND SKIRT ESCUTCHEON, 12" LONG
	93	93	96	-					TOTAL PER FLOOR
									242
									TOTAL THIS BUILDING

DATE	SUBMITTALS	BY
3-16-2021	QA Review	DH
2-1-2023	Permit	DH

W. WAYNE
 Automatic Fire Sprinklers, Inc.

MAIN OFFICE - ORLANDO, FLORIDA
 222 CAPITOL COURT, ORLANDO, FLORIDA 32781
 PHONE (407) 858-3030 FAX (407) 858-8088

JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

SHEET #	TITLE	DATE	BY
5	Building 100 1st & 2nd Floor Fire Sprinkler Plan	3-5-2021	Donald Hawkins
6			
7			
8			

W. WAYNE
 Automatic Fire Sprinklers, Inc.

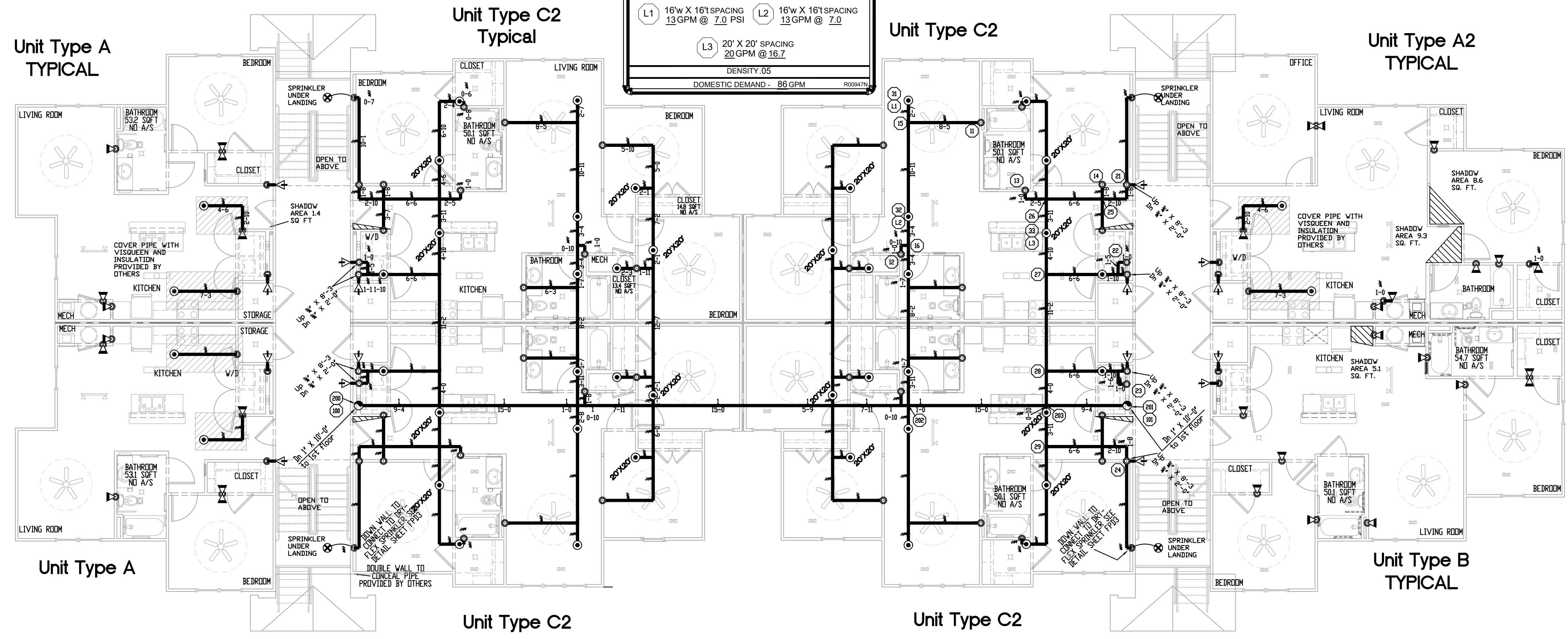
DESIGN AREA 1.3
 2nd FLOOR UNIT C2, COMMON AREA
 COMPARTMENT DESIGN PER NFPA 13R,
 SECTION 7.1.1

L1 16" W X 16" SPACING
 13 GPM @ 7.0 PSI

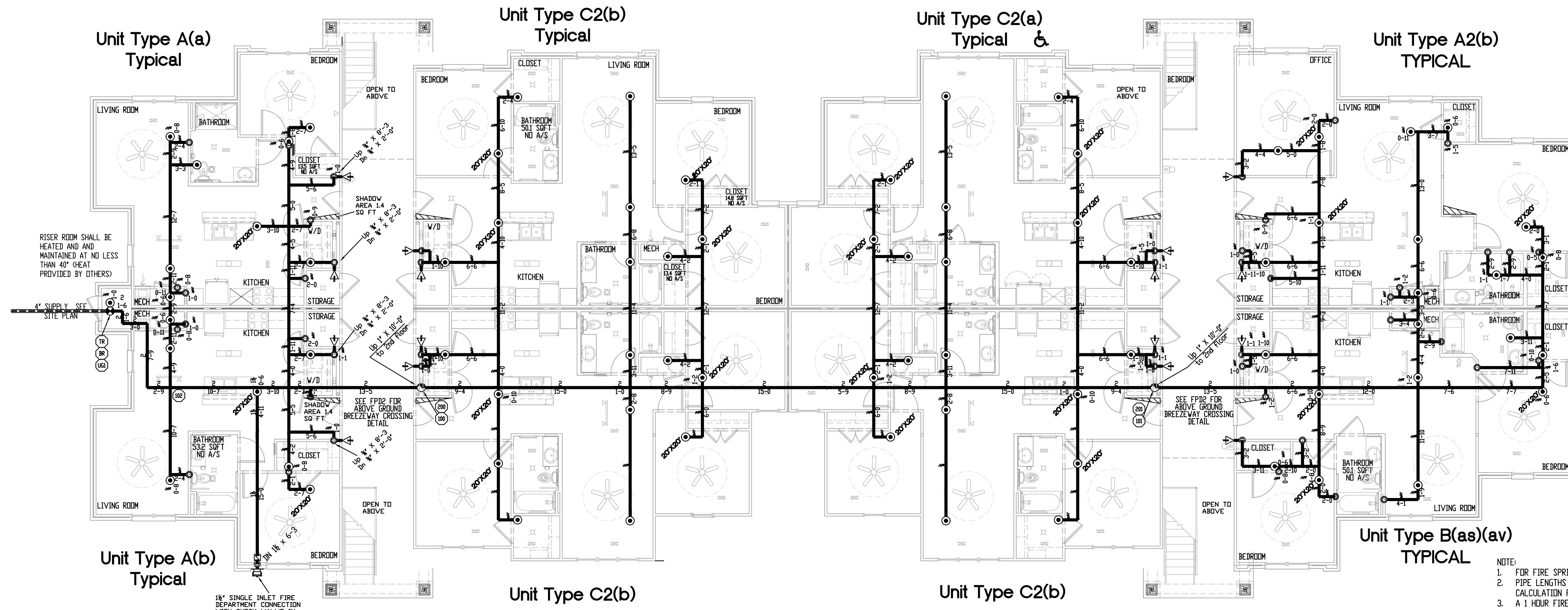
L2 16" W X 16" SPACING
 13 GPM @ 7.0

L3 20" X 20" SPACING
 20 GPM @ 16.7

DENSITY .05
 DOMESTIC DEMAND - 86 GPM

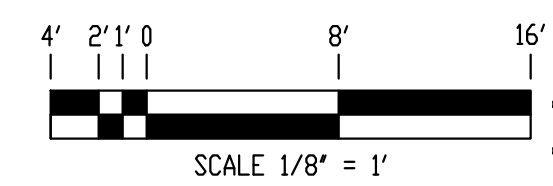


BUILDING 100 - 2nd FLOOR FIRE SPRINKLER LAYOUT
 9,555 Sq Ft SCALE 1/8" = 1'-0"



BUILDING 100 - 1ST FLOOR FIRE SPRINKLER LAYOUT
 9,911 Sq Ft SCALE 1/8" = 1'-0"

- NOTES:
- FOR FIRE SPRINKLER RISER DETAIL SEE SHEET FPB3.
 - PIPE LENGTHS FOR TYPICAL UNITS AND UNITS WITHOUT HYDRAULIC CALCULATION POINTS HAVE BEEN OMITTED FOR CLARITY.
 - A 1 HOUR FIRE WALL IS PROVIDED BY OTHERS BETWEEN DWELLING UNITS.
 - CEILING IN UNITS ARE 8'-0" AFF UNLESS NOTED OTHERWISE.
 - THE RISER ROOM SHALL BE HEATED AND MAINTAINED AT NO LESS THAN 40°. HEAT IS TO BE PROVIDED BY OTHERS.
 - HORIZONTAL SIDEWALL SPRINKLERS ON THE TOP FLOOR UNITS ARE SUPPLIED BY AN 8" X 8" SECTION OF CPVC PIPE FROM THE FLOOR BELOW.



UNIT A			UNIT C2		
TOTAL FIXTURE LOAD PER ITEM	NUMBER OF ITEMS	ITEM	TOTAL FIXTURE LOAD PER ITEM	NUMBER OF ITEMS	ITEM
1	6	BATH GROUPS W/ FLUSH TANK	2	6	12
-	2	BATH TUB OR SHOWER STALL	-	2	0
1	2	KITCHEN SINKS	1	2	2
-	1	LAVATORY	-	1	0
-	3	WATER CLOSET W/ FLUSH TANK	-	3	0
1	1	DISHWASHERS	1	1	1
1	2	WASHING MACHINES	1	2	2
TOTAL FIXTURE LOAD PER UNIT		11	TOTAL FIXTURE LOAD PER UNIT		17

	UNIT A	UNIT C2
TOTAL FIXTURE LOAD PER UNIT	11	17
TOTAL UNITS PER BUILDING	8	12
TOTAL LOAD UNITS PER UNIT	88	204
TOTAL UNIT DEMAND PER BUILDING	292	
TOTAL DOMESTIC DEMAND PER BLDG IN GPM INTERPOLATION USED	86	

TABLES A.9.6 (a)/(b) DOMESTIC DEMAND
 SCALE: NONE
 00333N

WAYNE Automatic Fire Sprinklers, Inc.
 DESIGN AREA 1.1
 3rd FLOOR UNIT C2 COMMON AREA
 COMPARTMENT DESIGN PER NFPA 13R,
 SECTION 7.1.1

J1	16'w X 16'1"SPACING 16 GPM @ 13.3 PSI	J2	16'w X 16'1"SPACING 16 GPM @ 13.3
J3	16'w X 16'1"SPACING 16 GPM @ 13.3	J4	16'w X 16'1"SPACING 16 GPM @ 13.3

DENSITY .05
 DOMESTIC DEMAND - 86 GPM

WAYNE Automatic Fire Sprinklers, Inc.
 DESIGN AREA 1.2
 3rd FLOOR OUTSIDE DWELLING UNIT
 DESIGN PER NFPA 13R,
 SECTION 7.2

K1	122 FT ² .10 DENSITY @ 7 PSI	K2	122 FT ² .10 DENSITY @ 7 PSI
K3	122 FT ² .10 DENSITY @ 7 PSI	K4	122 FT ² .10 DENSITY @ 7 PSI

DENSITY .10
 DOMESTIC DEMAND - 86 GPM

IMPORTANT OWNER INFORMATION
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CPVC COMPATIBILITY NOTICE
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GRAPHICS ELEMENTS NOTE
 THE SPRINKLER CONSTRUCTION DRAWINGS AND SHOP DRAWINGS MAY INCLUDE BACKGROUND DRAWINGS OR GRAPHICS DERIVED FROM THE ARCHITECTURAL, CIVIL, STRUCTURAL, OR MEP DRAWINGS. THESE BACKGROUND DRAWINGS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED IN THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED IN THESE DRAWINGS.

WATER SUPPLY INFORMATION

STATIC PRESSURE	ACTUAL	DESIGN OR EXISTING	TEST	TEST
80	-	-	150	150
RESIDUAL PRESSURE	68	-	150	150
FLOW IN GPM	1060	-	150	150
PITOT READING	40	-	150	150

TEST PROVIDED BY: Lillington Fire Department
 HYDRANT LOCATION: Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	11	12
HAZARD CLASS	NFPA 13R	NFPA 13R
TYPE SPRINKLER IN DESIGN AREA	4	4
MINIMUM DENSITY	.05	.10
DESIGN AREA SF.	4 SPRINKLERS	4 SPRINKLERS
PSI READ @ 10' BASK	55.9	54.0
GPM READ @ BASK	65.8	72.3
PSI READ @ TEST	67.2	65.2
GPM READ @ TEST	151.8	158.3
ELEVATION @ HIGHEST SPRINKLER	27'-6"	27'-6"
HEAD: INSIDE/OUTSIDE		
DOMESTIC DEMAND	86	86

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS
⊙	16' x 16'	8'-0" BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNDO REFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊗	225 SQ FT	7'-0" BETWEEN SPRINKLERS	7'-0" MAX SPACING OFF WALLS UNDO REFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
⊠	16' x 16'	8'-0" BETWEEN SPRINKLERS	8'-0" MAX SPACING OFF WALLS UNDO REFLECTOR TO BE INSTALLED 1'-0" BELOW CEILING.
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SPRINKLERS

SYMB	1ST	2ND	3RD	4TH	SIN	SIZE	K	TEMP	MODEL
⊙	77	42	-	-	R3516	1/2"	4.9	175°	RELIABLE MODEL F1 Res 49 WHITE RESIDENTIAL PENDANT WITH WHITE ESCUTCHEON
⊗	-	4	-	-	V3506	1"	5.6	200°	VICTORIAN MODEL V3506 WHITE QUICK RESPONSE RPY FLEXIBLE PENDANT SPRINKLER WITH WHITE ESCUTCHEON
⊠	-	31	44	-	R3531	1/2"	4.4	175°	RELIABLE MODEL F1 Res 44 RESIDENTIAL HERC STEELWALL WITH WHITE ESCUTCHEON
⊡	16	16	12	-	R5714	1"	5.6	200°	RELIABLE MODEL F1 Res 44 RESIDENTIAL HERC STEELWALL WITH WHITE ESCUTCHEON
									TOTAL PER FLOOR
									242
									TOTAL THIS BUILDING

DATE **SUBMITTALS** **BY**

3-16-2021	QA Review	DH
2-1-2023	Permit	DH

NO. **DATE** **REVISIONS** **BY**

1	XX/XX/XX	-	-
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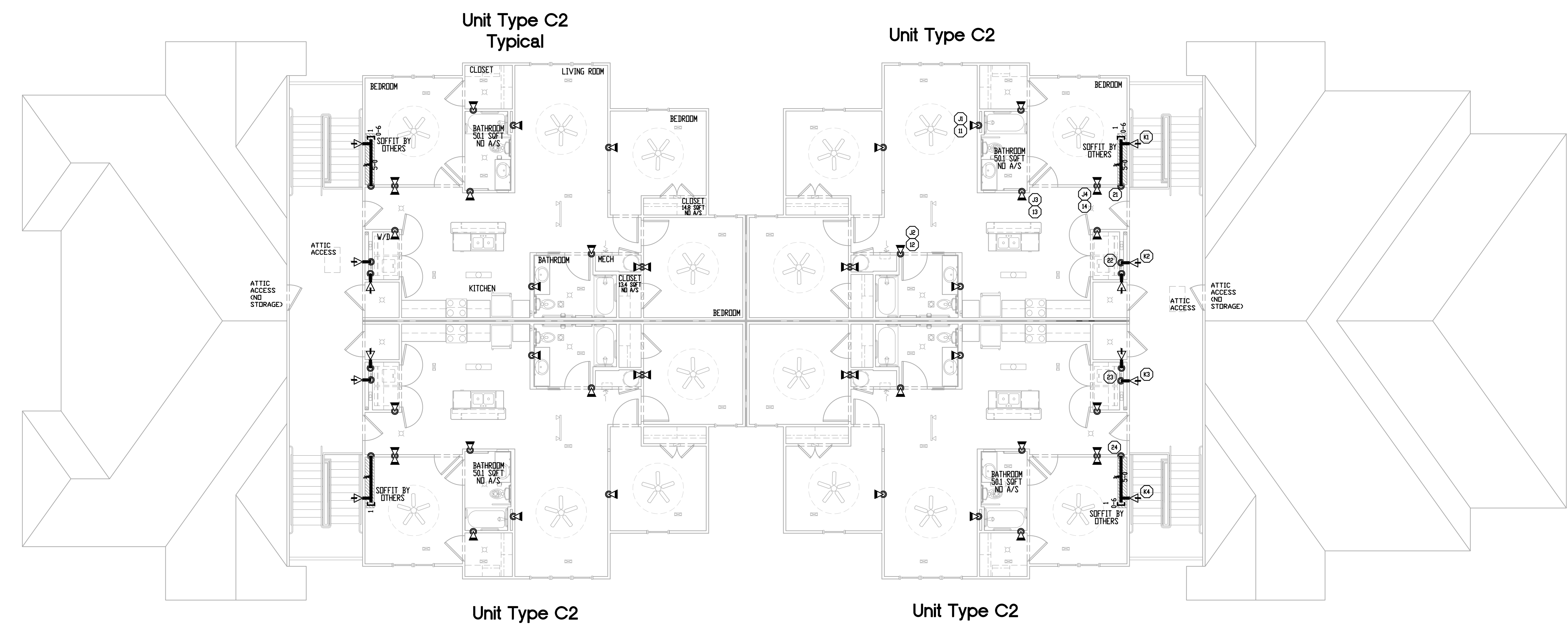
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JACKSONVILLE, FL 3808 CENTER PARK DRIVE JACKSONVILLE, FL 32216-2227 PHONE: (904) 328-3272 FAX: (904) 328-0724	TAMPA, FL 3808 CENTER PARK DRIVE TAMPA, FL 33607-2227 PHONE: (813) 328-3272 FAX: (813) 328-0724	ORLANDO, FL 222 CAPITOL COURT ORLANDO, FL 32781 PHONE: (407) 858-3030 FAX: (407) 858-8028
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JUNIPER VILLAGE
 PARKER LANE
 LILLINGTON, NORTH CAROLINA

Wynnefield Properties
 5614 Riverdale Road
 Jamestown, NC 27282

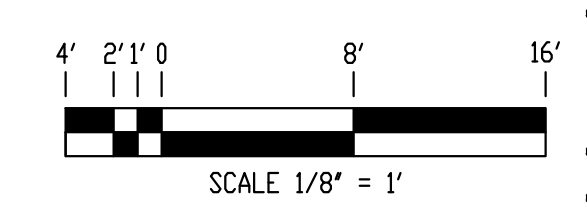
SHEET TITLE: Building 100 3rd Floor Fire Sprinkler Plan
 DRAWN BY: Donald Hawkins
 TOTAL A/S: 938
 DATE: 3-5-2021
 CONTRACT # 102001
 CENTER OF TILE JOINT: YES NO CENTER ON FIXTURES JOINT: YES NO
 SHEET # **FP1.2** CONSTRUCTION TYPE: V-B
 OCCUPANCY: R-2



BUILDING 100 - 3rd FLOOR FIRE SPRINKLER LAYOUT

5,447 Sq Ft

SCALE 1/8" = 1'-0"



- NOTE:**
- FOR FIRE SPRINKLER RISER DETAIL SEE SHEET FPR3.
 - PIPE LENGTHS FOR TYPICAL UNITS AND UNITS WITHOUT HYDRAULIC CALCULATION POINTS HAVE BEEN OMITTED FOR CLARITY.
 - A 1 HOUR FIRE WALL IS PROVIDED BY OTHERS WITHOUT DWELLING UNITS.
 - CEILING IN UNITS ARE 8'-0" AFF UNLESS NOTED OTHERWISE.
 - THE RISER ROOM SHALL BE HEATED AND MAINTAINED AT NO LESS THAN 40° (HEAT IS TO BE PROVIDED BY OTHERS)
 - HORIZONTAL SIDEWALL SPRINKLERS ON THE TOP FLOOR UNITS ARE SUPPLIED BY AN 3" X 8'-3" SECTION OF CPVC PIPE FROM THE FLOOR BELOW.

DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH 2013 EDITION OF NFPA 13R AND 2013 EDITION OF NFPA 13 WHERE DESIGNATED BY NFPA 13R.

DESIGN AND INSTALLATION TO BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES.

ALL PIPE AND FITTINGS USED ON THIS PROJECT TO BE IN ACCORDANCE WITH APPLICABLE CODES AND WAFS STANDARDS. SEE PIPE AND FITTINGS GENERAL NOTES (WAFS DETAIL #00593N).

ALL HANGERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THEIR LISTING.

ALL SEISMIC BRACING, IF REQUIRED, SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13 AND THEIR LISTING.

ALL PENETRATIONS THROUGH RATED BUILDING ASSEMBLIES SHALL BE SEALED WITH FIRE CAULK IN ACCORDANCE WITH DETAILS PROVIDED. WAFS POLICY IS TO USE HILTI FS ONE OR STI LC.

UNDERGROUND MAINS AND LEAD-INS SHALL BE FLUSHED AND SIGNED TEST CERTIFICATES PROVIDED BEFORE A CONNECTION IS MADE TO THE SPRINKLER SYSTEM.

ALL PIPING SHALL BE INSPECTED AND APPROVED BY PROPER AUTHORITIES PRIOR TO COVERING WITH DRYWALL. COPIES OF SIGNED TEST CERTIFICATES ARE TO BE FORWARDED TO THE PROPER RECIPIENTS.

ALL SYSTEMS SHALL BE TESTED AT 500 PSI FOR 2 HOURS.

ALL SPOFFS REQUIRED TO CONCEAL SPRINKLER PIPING ARE BY OTHERS.

ALL WIRING OF DEVICES (FLOW SWITCHES, TAMPER SWITCHES, COMPRESSORS, ETC) IS BY OTHERS.

CONNECTION OF SPRINKLER DEVICES TO THE BUILDING ALARM OR MONITORING SYSTEM IS BY OTHERS.

ALL PAINTING OF PIPE AS REQUIRED IS BY OTHERS.

ALL INSULATION REQUIRED FOR FREEZE PROTECTION OF SPRINKLER PIPING IS BY OTHERS.

HEATING OF ROOMS TO MAINTAIN TEMPERATURES OF 40 DEGREES OR GREATER IS BY OTHERS.

FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED NOT LESS THAN 18" AND NOT MORE THAN 48" ABOVE THE LEVEL OF THE ADJACENT GRADE.

SPRINKLERS SHALL NOT BE INSTALLED PRIOR TO THE FITTINGS BEING CEMENTED IN PLACE.

ALL SPRINKLERS IN DWELLING UNITS SHALL BE UL LISTED OR FM APPROVED RESIDENTIAL SPRINKLERS.

ALL SPRINKLERS OUTSIDE OF DWELLING UNITS SHALL BE QUICK RESPONSE RESIDENTIAL SPRINKLERS SHALL BE ALLOWED AS PER NFPA 13R SECTION 6.4.7.

SPARE SPRINKLERS OF EACH TYPE, TEMPERATURE RATING AND OFFICE SIZE AND APPROPRIATE WRENCH OR WRENCHES SHALL BE LEFT ON THE PREMISES ON A SINGLE PROPERTY UNDER THE SAME OWNERSHIP. SPRINKLERS WILL BE PROVIDED IN A SINGLE LOCATION.

REFER TO SPACING NOTES ON PLANS FOR MAXIMUM CALCULATED SPACING ALLOWANCES.

SPRINKLERS SHALL BE PROVIDED IN ALL OPEN ENDED CORRIDORS THAT ARE NOT SEPARATED FROM THE EXIT STAIRS PER IBC/WALL/FRG 903.3.1.2.

SPRINKLERS SHALL BE INSTALLED IN ALL AREAS EXCEPT AS FOLLOWS:

- BATHROOMS WHERE THE AREA DOES NOT EXCEED 50 SQ FT (INCLUDING TUBS AND SHOWERS).
- CLOTHES CLOSETS, LINEN CLOSETS AND PANTRIES WITHIN THE DWELLING UNITS THAT DO NOT EXCEED 24 SQUARE FEET, THE LEAST DIMENSION DOES NOT EXCEED 9 FEET, AND THE WALLS AND CEILING ARE SURFACED WITH NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE MATERIALS AS DEFINED BY NFPA 220, STANDARD ON TYPES OF BUILDING CONSTRUCTION.
- ANY PORCHES, BALCONIES (EXCEPT THOSE OF TYPE V CONSTRUCTION), CORRIDORS, AND STAIRS THAT ARE OPEN AND ATTACHED.
- ATTICS, PENTHOUSE EQUIPMENT ROOMS, ELEVATOR MACHINE ROOMS, CONCEALED SPACES DEDICATED EXCLUSIVELY TO AND CONTAINING ONLY DWELLING UNIT VENTILATION EQUIPMENT, CRAWL SPACES, FLOOR/CEILING SPACES, NONCOMBUSTIBLE ELEVATOR SHAFTS WHERE THE ELEVATOR CARS COMPLY WITH ANSI A77.1 AND OTHER CONCEALED SPACES THAT ARE NOT USED OR INTENDED FOR LIVING PURPOSES OR STORAGE AND DO NOT CONTAIN FUEL-FIRED EQUIPMENT.
- CLOSETS ON EXTERIOR BALCONIES AND EXTERIOR BREEZEWAYS/CORRIDORS, REGARDLESS OF SIZE OR CONTENTS, AS LONG AS THERE ARE NO DOORS OR UNPROTECTED PENETRATIONS FROM THE CLOSET DIRECTLY INTO THE DWELLING UNIT.
- CEILING POCKETS THAT MEET THE FOLLOWING REQUIREMENTS:
 - THE TOTAL VOLUME OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 100 CU FT.
 - THE DEPTH OF THE UNPROTECTED CEILING POCKET DOES NOT EXCEED 12 IN.
 - THE ENTIRE FLOOR OF THE UNPROTECTED CEILING POCKET IS PROTECTED BY THE SPRINKLERS AT THE LOWER CEILING ELEVATIONS.
 - THE INTERIOR FINISH OF THE UNPROTECTED CEILING POCKET IS NONCOMBUSTIBLE OR LIMITED-COMBUSTIBLE CONSTRUCTION.

WAFS TO PROVIDE ALL REQUIRED SIGNAGE PER NFPA 13R INCLUDING BUT NOT LIMITED TO VALVES, AND HYDRAULIC PLACARDS.

ALL MATERIAL APPLICABLE TO THIS PROJECT WILL BE INDICATED WITH A (C)

ALL PLASTIC PIPE 3/4" THROUGH 2 1/2" SHALL BE UL LISTED OR FM APPROVED CPVC MANUFACTURED IN ACCORDANCE WITH ASTM F-442.

ALL PLASTIC FITTINGS SHALL BE UL LISTED OR FM APPROVED CPVC MANUFACTURED IN ACCORDANCE WITH ASTM F438, ASTM F439 OR ASTM F1970.

ALL CPVC PIPE AND FITTINGS SHALL BE ASSEMBLED USING 'ONE STEP' 500 CEMENT.

CPVC PIPE SHALL BE ALLOWED TO BE USED IN ORDINARY HAZARD ROOMS OF 400 SQUARE FEET OR LESS OF OTHERWISE LIGHT HAZARD OCCUPANCIES (NFPA 13 SECTION 6.3.6.2 OR NFPA 13R SECTION 5.2.2.3).

ALL 1" TO 2" THREADED GALVANIZED PIPE SHALL BE SCHEDULE 40 HOT DIPPED GALVANIZED MANUFACTURED IN ACCORDANCE WITH ASTM A-795 OR ASTM A-53.

ALL 1" TO 2" THREADED BLACK STEEL PIPE SHALL BE UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-199 OR A-795. ACCEPTABLE PIPE BRANDS ARE WHEATLAND 'MEGA-FLOW', ALLEED 'DYNA-FLOW', BULL MOOSE TUBE 'EDDY' THREAD AND WELDED TUBE-BERKELEY 'STEADY'-THREAD. ALL PIPE SHALL BE CPVC COMPATIBLE.

ALL 1" TO 2" THREADED GALVANIZED PIPE SHALL BE SCHEDULE 40 HOT DIPPED GALVANIZED MANUFACTURED IN ACCORDANCE WITH ASTM A-795 OR ASTM A-53.

ALL 1" TO 2" THREADED BLACK STEEL PIPE SHALL BE SCHEDULE 40 UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795. ACCEPTABLE PIPE MANUFACTURERS ARE WHEATLAND, ALLEED, BULL MOOSE TUBE AND WELDED TUBE-BERKELEY. ALL PIPE SHALL BE CPVC COMPATIBLE.

ALL 1/4" TO 4" GROOVED BLACK STEEL PIPE SHALL BE UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A796. ACCEPTABLE BRANDS ARE BULL MOOSE 'EDDYFLOW', WHEATLAND 'MEGA-FLOW', ALLEED 'DYNA-FLOW' AND WELDED TUBE-BERKELEY 'STEADY'-FLOW. ALL PIPE SHALL BE CPVC COMPATIBLE.

ALL 1/4" TO 4" GROOVED BLACK STEEL PIPE SHALL BE SCHEDULE 40 UL LISTED/FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795. ACCEPTABLE PIPE MANUFACTURERS ARE BULL MOOSE, WHEATLAND, ALLEED AND WELDED TUBE-BERKELEY. ALL PIPE SHALL BE CPVC COMPATIBLE.

ALL GROOVED STEEL PIPE 6" AND LARGER SHALL BE SCHEDULE 10 HOT DIPPED GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795.

ALL GROOVED STEEL PIPE 6" AND LARGER SHALL BE SCHEDULE 10 HOT DIPPED GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-795.

ALL STEEL PIPE SHALL HAVE A CORROSION RESISTANCE RATIO (CRR) OF NOT LESS THAN 10 PER WAFS STANDARDS.

ALL BLACK THREADED FITTINGS SHALL BE DUCTILE IRON CLASS 150 OR CLASS 300 ANSI B16.3, CAST IRON CLASS 150 OR CLASS 250 ANSI B16.4 OR MALLEABLE IRON CLASS 150 OR CLASS 300 ANSI B16.3.

ALL GALVANIZED THREADED FITTINGS SHALL BE MALLEABLE IRON CLASS 150 OR CLASS 300 ANSI B16.3 WITH GALVANIZED COATING IN ACCORDANCE WITH ASTM A-153.

ALL WELDED OUTLETS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ANSI B16.1.

GROOVED FITTINGS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-538 FOR DUCTILE IRON OR ASTM A-47 FOR MALLEABLE IRON.

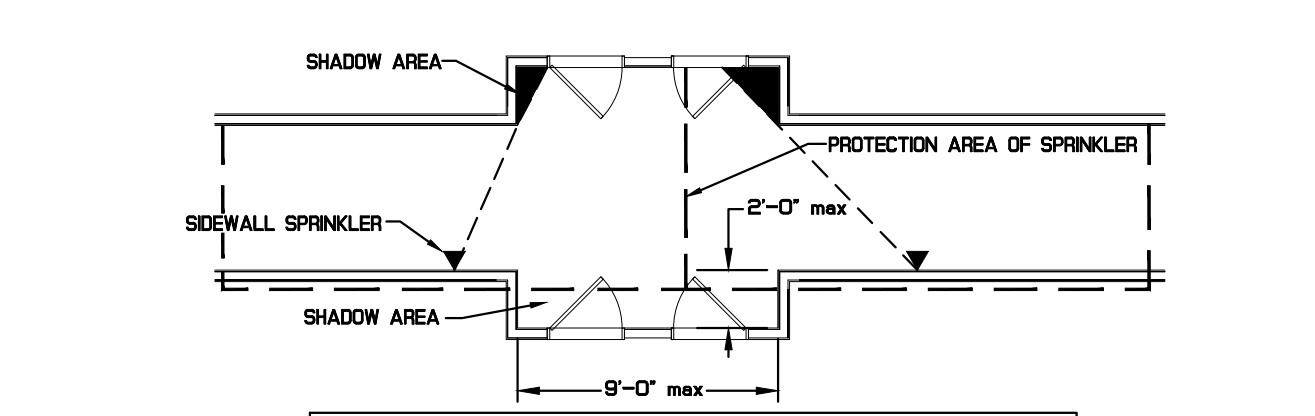
ALL GALVANIZED GROOVED FITTINGS SHALL BE UL LISTED OR FM APPROVED AND MANUFACTURED IN ACCORDANCE WITH ASTM A-538 FOR DUCTILE IRON OR ASTM A-47 FOR MALLEABLE IRON. GALVANIZED COATING SHALL BE IN ACCORDANCE WITH ASTM A-153.

ALL GROOVED STEEL PIPE SHALL BE ROLL GROOVED PER PIPE MANUFACTURER REQUIREMENTS.

IN REGARDS TO OBSTRUCTIONS AND SHADOWED FLOOR AREAS, PLEASE NOTE THE FOLLOWING EXCEPTS FROM NFPA 13R 2013 EDITION:

6.4.6.3.1 SHADOW AREAS SHALL BE PERMITTED IN THE PROTECTION AREA OF A SPRINKLER AS LONG AS THE CUMULATIVE DRY AREAS DO NOT EXCEED IS FT² (1.4 M²) PER SPRINKLER.

6.4.6.3.2 SHADOW AREAS IN CORRIDORS UP TO 2 FT (0.61 M) IN DEPTH AND UP TO 9 FT (2.7 M) IN LENGTH BEHIND SIDEWALL SPRINKLERS SHALL BE PERMITTED AS SHOWN IN FIGURE 6.4.6.3.2.



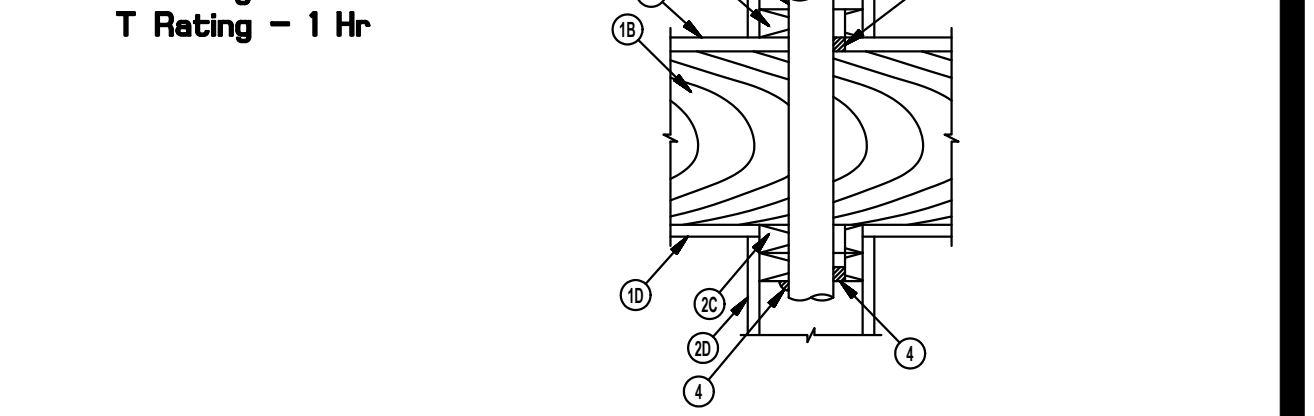
6.4.6.3.3 SMALL AREAS CREATED BY ARCHITECTURAL FEATURES SUCH AS PLANTER BOX WINDOWS, BAY WINDOWS, AND SIMILAR FEATURES SHALL BE EVALUATED AS FOLLOWS:

(1) WHERE NO ADDITIONAL FLOOR AREA IS CREATED BY AN ARCHITECTURAL FEATURE, NO ADDITIONAL SPRINKLER PROTECTION IS REQUIRED.

(2) WHERE ADDITIONAL FLOOR AREA IS CREATED BY AN ARCHITECTURAL FEATURE, NO ADDITIONAL SPRINKLER PROTECTION IS REQUIRED, PROVIDED ALL OF THE FOLLOWING CONDITIONS ARE MET:

- (A) THE FLOOR AREA SHALL NOT EXCEED 18 FT² (1.7 M²).
- (B) THE FLOOR AREA SHALL NOT BE GREATER THAN 2 FT (0.61 M) IN DEPTH AT THE DEEPEST POINT OF THE ARCHITECTURAL FEATURE TO THE PLANE OF THE PRIMARY WALL WHERE MEASURED ALONG THE FINISHED FLOOR.
- (C) THE FLOOR SHALL NOT BE GREATER THAN 9 FT (2.7 M) IN LENGTH WHERE MEASURED ALONG THE PLANE OF THE PRIMARY WALL.
- (D) MEASUREMENT FROM THE DEEPEST POINT OF THE ARCHITECTURAL FEATURE TO THE SPRINKLER SHALL NOT EXCEED THE MAXIMUM LISTED SPACING OF THE SPRINKLER.
- (E) THE HYDRAULIC DESIGN SHALL NOT BE REQUIRED TO CONSIDER THE AREA CREATED BY THE ARCHITECTURAL FEATURE.

System No. F-C-2270
F Rating - 1 Hr
T Rating - 1 Hr



1. FLOOR-CEILING ASSEMBLY - THE FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL U300 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:

- A. FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MATERIALS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIAM OF FLOOR OPENING IS 3 IN.
- B. WALLS - NOM 2 BY 10 IN LUMBER JOISTS SPACED 16 IN OC WITH NOM 1 BY 3 IN LUMBER BRIDGING AND WITH ENDS FIREFSTOPPED AS AN ALTERNATE TO LUMBER JOISTS, NOM 10 IN DEEP (OR DEEPER) LUMBER STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED WITH ENDS FIREFSTOPPED.
- C. CHASE WALLS - (NOT SHOWN) - RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS (ITEM 1B) BETWEEN WALLBOARD (ITEM 1D) AND WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
- D. CHASE WALLS - (NOT SHOWN) 4 FT WIDE BY 5/8 IN THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. THROUGH PENETRANT (ITEM 3) SHALL BE ROUTED THROUGH A 1 HR FIRE-RATED SINGLE DOUBLE OR STAGGERED WOOD STUD/GYPSUM WALLBOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS - NOM 2 BY 4 IN LUMBER STUDS.
 - B. GYPSUM BOARD - THE GYPSUM WALLBOARD CHASE WALL SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
 - A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) FLOWGUARD GOLD® SBRI15 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
 - B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE - NOM 2 IN DIAM (OR SMALLER) BLAZEMASTER® SBRI35 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
 - C. FILL, VOID OR CAVITY MATERIAL - SEALANT - MIN 3/4 IN THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND FLUSH WITH BOTTOM SURFACE OF LOWER TOP PLATE. AT POINT CONTACT LOCATION, A MIN 1/2 IN DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED FLUSH WITH BOTTOM SURFACE OF LOWER TOP PLATE.

IMPORTANT OWNER INFORMATION

THIS DRAWING IS BASED ON THE OWNER'S ACCEPTANCE OF THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED BY THE OWNER.

CPVC COMPATIBILITY NOTICE

CPVC PIPE AND FITTINGS MUST BE COMPATIBLE WITH ALL MATERIALS IN CONTACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPATIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPATIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPATIBILITY.

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GRAPHICS ELEMENTS NOTE

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WATER SUPPLY INFORMATION

ACTUAL	DESIGN (AS SHOWN)	DESIGN (AS REQUIRED)	TYPE OF PIPE
80	80	80	HYDRANT ELEV. 163 (3'-9")
68	68	68	DATE OF TEST 3-26-2021
1050	1050	1050	TYPE OF TEST 850 AM
40	40	40	NUMBER OF PORTS FLOWED 1

TEST PROVIDED BY: Lillington Fire Department

HYDRANT LOCATION: Parker Lane and North Main Street - Hydrant #224

DESIGN CRITERIA

DESIGN AREA #	HAZARD CLASS	UL TYPE SPRINKLER DESIGN AREA	MINIMUM DENSITY	DESIGN AREA SF	PSI REQ'D @ BASE	PSI REQ'D @ TEST	UL TYPE SPRINKLER	UL TYPE SPRINKLER

SPRINKLERS SPACING

SYMBOL	MAXIMUM	MINIMUM	COMMENTS

QUANTITY: **SPRINKLERS**

SYMB	1ST	2ND	3RD	4TH	5TH	SIZE	K	TEMP	MODEL

TOTAL PER FLOOR: _____

TOTAL THIS BUILDING: _____

DATE **SUBMITTALS** **BY**

DATE	SUBMITTALS	BY
2-24-2021	QA Review	DH
3-4-2021	Permit	DH

NO. **DATE** **REVISIONS** **BY**

NO.	DATE	REVISIONS	BY
1	XX/XX/XX	--	--

Automatic Fire Sprinklers, Inc.

MAIN OFFICE - ORLANDO, FLORIDA
222 CAPITOL COURT OCCEE FLORIDA 34781
PHONE: (407) 858-3030 FAX: (407) 858-8028

JACKSONVILLE, FL TAMPA, FL GERRARD BEACH, FL
6800 FLORIDA AVE 3801 LYONS PARKWAY 1918 E. PARKWAY #101
JACKSONVILLE, FL 32216 TAMPA, FL 33617 GERRARD BEACH, FL 32146
PHONE: (904) 928-3322 PHONE: (813) 232-0277 PHONE: (904) 876-1010
FAX: (904) 928-0742 FAX: (813) 850-0353 FAX: (904) 876-1044

FT. MYERS, FL CONCORD, NC STATE LICENSE
4620 LINDSEY AVE 4600 LINDSEY DRIVE NC SPRINKLER #101
FT. MYERS, FL 33909-4884 CONCORD, NC 28027-8877 NC ALARM 8899 OF LV
PHONE: (888) 429-3827 PHONE: (704) 788-8828 NC SPRINKLER #101
FAX: (888) 429-3827 FAX: (704) 788-8828 NC ALARM 8899 OF LV

JUNIPER VILLAGE
PARKER LANE
LILLINGTON, NORTH CAROLINA

5 Wynfield Properties
5614 Riverdale Road
Jamestown, NC 27282

SHEET TITLE: Notes and Details 1
DRAWN BY: Donald Hawkins
TOTAL A/S: 938
DATE: 3-5-2021
ANL: Town of Lillington

CONTRACT #: 102001

CENTER OF TILE JOINT YES NO CENTER ON FIXTURES JOINT YES NO

SHEET # CONSTRUCTION TYPE:
FPD1 V-B
OC OCCUPANCY:
R-2

CURE TIMES WITH ONE STEP SOLVENT CEMENT
200 PSI (MAXIMUM) TEST PRESSURE (SEE NOTE 1)

PIPE SIZE INCHES	AMBIENT TEMPERATURE DURING CURE PERIOD		
	60°F TO 120°F	40°F TO 59°F	0°F TO 39°F
3/4"	45 MIN.	1.5 HR.	24 HR.
1"	45 MIN.	1.5 HR.	24 HR.
1 1/4"	1.5 HR.	16 HR.	120 HR.
1 1/2"	1.5 HR.	16 HR.	120 HR.
2"	6 HR.	36 HR.	SEE NOTE 2
2 1/2"	8 HR.	72 HR.	SEE NOTE 2
3"	8 HR.	72 HR.	SEE NOTE 2

CURE TIMES WITH ONE STEP SOLVENT CEMENT
225 PSI (MAXIMUM) TEST PRESSURE (SEE NOTE 1)

PIPE SIZE INCHES	AMBIENT TEMPERATURE DURING CURE PERIOD		
	60°F TO 120°F	40°F TO 59°F	0°F TO 39°F
3/4"	1 HR.	4 HR.	48 HR.
1"	1.5 HR.	4 HR.	48 HR.
1 1/4"	3 HR.	32 HR.	10 DAYS
1 1/2"	3 HR.	32 HR.	10 DAYS
2"	8 HR.	48 HR.	SEE NOTE 2
2 1/2"	24 HR.	96 HR.	SEE NOTE 2
3"	24 HR.	96 HR.	SEE NOTE 2

NOTE 1: THESE CURE TIMES ARE FOR NEW CONSTRUCTION. IF GLUING INTO EXISTING PIPING, SUCH AS IN THE CASE OF CUT-INS, CURE TIME SHOULD BE A MINIMUM OF 24 HOURS.

NOTE 2: FOR THESE SIZES, THE SOLVENT CEMENT CAN BE APPLIED AT TEMPERATURES BELOW 32°F, HOWEVER, THE SPRINKLER SYSTEM TEMPERATURE MUST BE RAISED TO A TEMPERATURE OF 32°F OR ABOVE AND ALLOWED TO CURE PER THE ABOVE RECOMMENDATIONS PRIOR TO PRESSURE TESTING.

TYPICAL CPVC CURE TIMES

SCALE: NONE

00415N

PERMISSIBLE BENDING DEFLECTIONS SDR 13.5 (73°F)
(ONE END RESTRAINED)

PIPE SIZE INCHES	LENGTH OF RUN (L) IN FEET							
	2'	5'	7'	10'	15'	17'	20'	
3/4"	1.3"	7.8"	15.4"	31.3"	45.1"	70.5"	90.6"	125.4"
1"	1.0"	6.3"	12.3"	25.0"	36.0"	56.3"	72.3"	100.1"
1 1/4"	0.8"	5.0"	9.7"	19.8"	28.5"	44.6"	57.3"	79.3"
1 1/2"	0.7"	4.3"	8.5"	17.3"	24.9"	39.0"	50.1"	69.3"
2"	0.6"	3.5"	6.8"	13.9"	20.0"	31.2"	40.0"	55.4"
2 1/2"	0.5"	2.9"	5.6"	11.4"	16.5"	25.8"	33.1"	45.8"
3"	0.4"	2.4"	4.6"	9.4"	13.5"	21.2"	27.2"	37.6"

$d = 0.329 \frac{L^2}{D}$

PERMISSIBLE BENDING DEFLECTIONS SDR 13.5 (73°F)
(BOTH ENDS RESTRAINED)

PIPE SIZE INCHES	LENGTH OF RUN (L) IN FEET							
	2'	5'	7'	10'	15'	17'	20'	
3/4"	0.3"	2.0"	3.8"	7.8"	11.3"	17.6"	22.6"	31.3"
1"	0.3"	1.6"	3.1"	6.3"	9.0"	14.1"	18.1"	25.0"
1 1/4"	0.2"	1.2"	2.4"	5.0"	7.1"	11.2"	14.3"	19.8"
1 1/2"	0.2"	1.1"	2.1"	4.3"	6.2"	9.7"	12.5"	17.3"
2"	0.1"	0.9"	1.7"	3.5"	5.0"	7.8"	10.0"	13.9"
2 1/2"	0.1"	0.7"	1.4"	2.9"	4.1"	6.4"	8.3"	11.4"
3"	0.1"	0.6"	1.2"	2.4"	3.4"	5.3"	6.8"	9.4"

$d = 0.0823 \frac{L^2}{D}$

CPVC BENDING DEFLECTIONS

SCALE: NONE

00416N

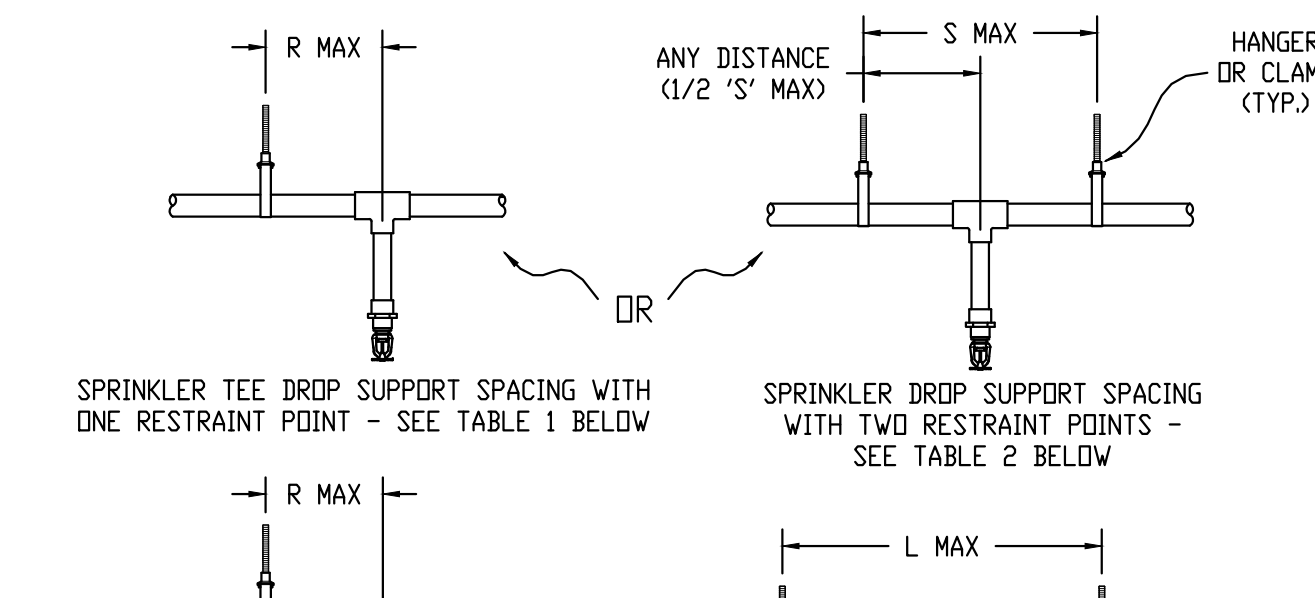


TABLE 1 - SPRINKLER SUPPORT SPACING WITH ONE RESTRAINT POINT

NDM. PIPE SIZE	'R' @ LESS THAN 100 PSI		'S' @ GREATER THAN 100 PSI	
	THAN 100 PSI	THAN 100 PSI	THAN 100 PSI	THAN 100 PSI
3/4 INCH	0'-9"	0'-6"	3/4 INCH	4'-0"
1 INCH	1'-0"	0'-9"	1 INCH	5'-0"
1 1/4 INCH	1'-4"	1'-0"	1 1/4 INCH	6'-0"
1 1/2 INCH	2'-0"	1'-0"	1 1/2 INCH	7'-0"
> 1 1/2 INCH	2'-0"	1'-0"	> 1 1/2 INCH	7'-0"

TABLE 2 - SPRINKLER SUPPORT SPACING WITH TWO RESTRAINT POINTS

NDM. PIPE SIZE	'R' @ LESS THAN 100 PSI		'S' @ GREATER THAN 100 PSI	
	THAN 100 PSI	THAN 100 PSI	THAN 100 PSI	THAN 100 PSI
3/4 INCH	4'-0"	3'-0"	3/4 INCH	4'-0"
1 INCH	5'-0"	4'-0"	1 INCH	5'-0"
1 1/4 INCH	6'-0"	5'-0"	1 1/4 INCH	6'-0"
1 1/2 INCH	7'-0"	7'-0"	1 1/2 INCH	7'-0"
> 1 1/2 INCH	7'-0"	7'-0"	> 1 1/2 INCH	7'-0"

TABLE 3 - MAXIMUM SUPPORT SPACING

NDM. PIPE SIZE	3/4 INCH	1 INCH	1 1/4 INCH	1 1/2 INCH	2 INCH	2 1/2 INCH	3 INCH
SUPPORT SPACING 'L'	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"	10'-0"

TYPICAL CPVC HANGER

